A.1 References for Section 2.0 Verification

1. Wright Laboratory Electronic Warfare Requirements and Analysis Branch (WL/AAWA-1). *Operational Concept Document (Analyst's Manual) For The Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, August 1993. (UNCLASSIFIED)

2. WL/AAWA-1. *Software Programmer's Manual For The Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, August 1993. (UNCLASSIFIED)

3. WL/AAWA-1.*Software User's Manual For The Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, August 1993. (UNCLASSIFIED)

4. *Radar Range Performance Analysis*, by Lamont V. Blake, D. C. Heath and Company, 1980. (UNCLASSIFIED)

5. *Modifying an Existing One-on-One Radar Model for Unusual Target Statistics (An Example Using ALARM 84)*, by Bernard Rees, Swerling, Manasse, & Smith, Canoga Park, CA, 1985. (UNCLASSIFIED)

6. Susceptibility Model Assessment and Range Test (SMART) Project Office. *Post-Development Design Document for ALARM*, ENTEK, Inc., 6 May 1994. (ENTEK/ABQ-94-0113, UNCLASSIFIED)

7. SMART Project Office. *ALARM92 Verification Source Report, Functional Element 2.1 Masking, Functional Element 2.3 Multipath and Diffraction*, SAIC, 28 June 1993. (JTCG/AS-93-SM-VSR 2.1/2.3, UNCLASSIFIED)

8. SMART Project Office. *ALARM92 Verification Source Report, Functional Element 1.2.1.1 Static RCS, Functional Element 1.2.1.2 Dynamic RCS (Rotor Doppler), Functional Element 1.2.2 Fluctuations*, SAIC, 29 July 1993. (JTCG/AS-93-SM-VSR 1.2, UNCLASSIFIED)

9. SMART Project Office. *ALARM92 Verification Source Report, Functional Element 6.1 Threshold, Functional Element 6.2 Integration, Functional Element 6.4 Pulse Compression*, SAIC, 31 August 1993. (JTCG/AS-93-SM-VSR 6.1, UNCLASSIFIED)

A.2 References for Section 3.0 Validation

1. Susceptibility Model Assessment and Range Test (SMART) Project Office. *SMART Project Verification, Validation, and Configuration Management (VV&CM) Process Description*, Unpublished memo, China Lake, CA, NAWCWPNS, Undated. (UNCLASSIFIED)

2. *PHALANX, Bulletin of Military Operations Research, Volume 24, Number 2*, Military Operations Research Society in cooperation with Military Applications Section of the Operations Research Society of America, Alexandria, VA, June 1991. (UNCLASSIFIED)

3. *SEKE: A Computer Model for Low-Altitude Radar Propagation Over Irregular Terrain*, by S. Ayasli and M.B. Carlson, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, MA, 1 May 1985. (Project Report CMT-70, UNCLASSIFIED)

4. *An Improved Spherical Earth Diffraction Algorithm for SEKE*, by M.P. Shatz and G.H. Polychronopoulos, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, MA, 15 April 1988. (Project Report CMT-111, UNCLASSIFIED)

5. *Radar Range Performance Analysis*, by Lamont V. Blake, Lexington Books, D.C. Heath and Co., Lexington, MA, 1980. (UNCLASSIFIED)

6. *SEKE Propagation Model with Antenna Pattern*, by C.C. Shang, Lincoln Laboratory, Massachusetts Institute of Technology, Lexington, MA, 17 February 1988. (Project Report CMT-116, UNCLASSIFIED)

7. *The Scattering of Electromagnetic Waves from Rough Surfaces*, by P. Beckmann and Andre Spizzichino, ARTECH House, Inc., Norwood, MA, 1987. (UNCLASSIFIED)

8. *Introduction to the Uniform Geometrical Theory of Diffraction*, by D.A. McNamara, C.W.I. Pistorius and J.A.G. Malherbe, Artech House, Inc., Norwood, MA, 1990. (UNCLASSIFIED)

9. SMART Project Office. *Document Description for SMART Accreditation Support Packages*, China Lake, CA, NAWCWPNS, 2 November 1994. (UNCLASSIFIED)

10. SMART Project Office. *Post-Development Design Document for ALARM*, ENTEK, Inc., Albuquerque, NM, April 1994. (UNCLASSIFIED)

11. *Software User's Manual for the Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, Dayton, OH, August 1993. (UNCLASSIFIED)

12. *Software Programmer's Manual for the Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, Dayton, OH, August 1993. (UNCLASSIFIED.)

13. *Operational Concept Document (Analyst's Manual) for the Advanced Low Altitude Radar Model (ALARM 3.0)*, SAIC, Dayton, OH, August 1993. (UNCLASSIFIED)

14. *Introduction To Radar Systems, 2nd Edition*, by Merrill I. Skolnik, McGraw-Hill Publishing Co., New York, NY, 1980. (UNCLASSIFIED)

15. *MTI And Pulse Doppler Radar*, by D. Curtis Schleher, Artech House, Norwood, MA, 1991. (UNCLASSIFIED)

16. Masters degree thesis. "Improvements to the Advanced Low Altitude Radar Model (ALARM 91)," by Terry D. Mosher, Naval Postgraduate School, Monterey, CA, September 1992. (UNCLASSIFIED)

17. *Radar Handbook, 2nd Edition*, by Merrill Skolnik, McGraw-Hill Publishing Co., New York, NY, 1990. (UNCLASSIFIED)

18. Missile and Space Intelligence Command, Redstone Arsenal, AL. *Final Report, XM08-23 Antenna Testing*, Georgia Tech Research Institute, Atlanta, GA, Dec 1992. (SECRET/NOFORN/WNINTEL)

19. _____. Environmental Science Services Administration (ESSA) Technical Report ERL 79-ITS 67, "Prediction of Tropospheric Radio Transmission Loss Over Irregular Terrain, A Computer Method - 1968," by A.G. Longley and P.L. Rice, Institute for Telecommunication Sciences, Boulder, CO, July 1968. (UNCLASSIFIED)

20. *Radar Propagation at Low Altitudes*, by M.L. Meeks, Massachusetts Institute of Technology Lincoln Laboratory, Artech House, Inc., Dedham, MA, 1982.